

PARUL UNIVERSITY
FACULTY OF ARTS
M.Arts Winter 2018 – 19 Examination

Semester: 3

Subject Code: 15203202

Subject Name: Physiological Psychology-I

Date: 29/11/2018

Time: 10.30 am to 1.00 pm

Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Do as directed.**(08)****A. Multiple choice type questions. (Each of 0.5 mark)**

1. What is the naked portion of the axon (not covered by myelin sheath) called?

(a) Dendrite	(b) soma
(c) node of ranvier	(d) terminal button
2. What is the study of interactions among psychological factors, the nervous system, and the immune system called?

(a) Psychoneuroimmunology	(b) neuropsychology
(c) neuroimmunology	(d) psychoimmunology
3. _____ were among the first medical disorders to be classified as psychosomatic.

(a) Heart disease	(b) gastric ulcers
(c) asthma	(d) skin disorders
4. Which of the following types of synapses not contribute directly to neural integration?

(a) Axodendritic	(b) axoaxonic
(c) axosomatic	(d) none of the above
5. Where is cerebrospinal fluid produced?

(a) Pia mater	(b) dura mater
(c) ventricles	(d) pons
6. Directions in the nervous system are usually described with reference to the _____.

(a) Lateral side	(b) caudal side
(c) ventral	(d) neuraxis
7. Which of the following is not one of the meninges?

(a) Pia mater	(b) dura mater
(c) arachnoid membrane	(d) ventricular zone
8. The innate immune system is the last line of defense against pathogens. True or false?

(a) True	(b) False
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9. Which of the following is not a principal structure of the hindbrain?

(a) Pons	(b) telencephalon
(c) cerebellum	(d) medulla oblongata
10. In the split brain phenomenon, which of the following brain structures is cut?

(a) Corpus callosum	(b) right hemisphere
(c) left hemisphere	(d) prefrontal cortex
11. (i) The thalamus is part of the diencephalon
 (ii) The diencephalon is part of the midbrain
 True or false?

(a) true; true	(b) true; false
(c) false; true	(d) false; false
12. the stress response was first described by _____.

(a) Darwin	(b) Thorndike
(c) Muller	(d) Selye
13. Broca's area is found in _____.

(a) left temporal lobe	(b) right temporal lobe
(c) left parietal lobe	(d) right parietal lobe

14. Aggression has been linked to _____
- (a) GABA (b) testosterone
(c) epinephrine (d) norepinephrine
15. How much is the resting potential of a neuron's membrane?
- (a) 70 mv (b) 50 mv
(c) -50 mv (d) -70 mv
16. Which of the following is a method of recording human electrophysiological activity?
- (a) lesion technique (b) experimental ablation
(c) Magnetic Resonance Imaging (d) electromyography

B. Terms/ Short notes. (Each of 01 mark)

(07)

1. Define interneurons
2. Name the two main types of cells that support the neuron
3. Name any two invasive techniques of studying physiological psychology
4. Define absolute refractory period
5. Where is cerebrospinal fluid (CSF) found?
6. What is the blood brain barrier?
7. What is eustress?

Q.2 Answer the following.

- A. Write a note on ethical issues in research with animals **(04)**
- B. How does stress affect immune functioning? **(04)**
- C. Write an account on amygdala and human emotion. **(04)**

OR

- C. Write a note on the spinal cord. **(04)**

Q.3 Answer the following.

- A. Describe the internal structure of a neuron **(05)**
- B. Write a note on the autonomic nervous system. **(05)**
- C. How are neural transmissions terminated? **(05)**

OR

- C. Give an account of research done with humans regarding fear **(05)**

Q.4

- A. Discuss the cerebral cortex. **(06)**
- B. Write a note on the cognitive neuroscience of emotion **(06)**
- C. Write a note on the lateralization of emotion **(06)**

OR

- C. How does communication between neurons take place? **(06)**